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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/782,726

02/18/2004

Abhishek Chauhan

2006579-0553 (CTX-158)

3405

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7590

11/17/2009

CHOATE, HALL & STEWART / CITRIX SYSTEMS, INC.  
TWO INTERNATIONAL PLACE  
BOSTON, MA 02110

EXAMINER

LANIER, BENJAMIN E

ART UNIT

PAPER NUMBER

2432

MAIL DATE

DELIVERY MODE

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/782,726	<b>Applicant(s)</b> CHAUHAN ET AL.	
	<b>Examiner</b> BENJAMIN E. LANIER	<b>Art Unit</b> 2432	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 08 September 2009.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 42-62 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 42-62 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                       | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>9/8/2009</u> .  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 08 September 2009 has been entered.

### ***Response to Amendment***

2. Applicant's amendment filed 08 September 2009 cancels claims 1-41, and adds claims 42-62. Applicant's amendment has been fully considered and entered.

### ***Response to Arguments***

3. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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5. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

6. Claims 42-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Xie, U.S. Patent No. 6,772,347, in view of Balasubramanian, U.S. Publication No. 2005/0086206, and further in view of Chelsa, U.S. Publication No. 2004/0250124. Referring to claims 42, 47, 50-52, 57, 60-62, Xie discloses a computer network firewall wherein initially denied packets are additionally filtered dynamically (Col. 5, lines 45-50 & Figure 6). The packets are initially denied based on counter rules that increment the count until a threshold is exceeded (Col. 5, lines 10-15), which meets the limitation of receiving, by an intermediary device between a client and a server, a first message, rejecting, by the intermediary device, the first message based on a rejection rule that rejects messages. The dynamic filter, filters the initially denied packets using an additional set of rules, which are dynamically generated (Col. 5, lines 50-52), which meets the limitation of generating, by the intermediary device, an exception rule to the rejection rule responsive to the determination. The initially rejected packets, and later packets, can be allowed based on the newly generated rules used by the dynamic filter (Col. 5, lines 63-66), which meets the limitation of receiving, by the intermediary device, a second message, allowing, by the intermediary device, the second message to pass between the client and the server based on the exception rule. Xie discloses filtering packets using rules based on port number and IP address

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(Col. 5, lines 58-60). The rules can be stored in a memory (Col. 4, lines 5-8), which meets the limitation of a trie structure, wherein each node in the trie is associated with a component. Xie does not specify filtering based on URLs and URL descendants. Balasubramanian discloses a rule based filtering system where URL requests are filtered at the domain and IP address level, based on rules, to allow/deny traffic for all domains beginning with identified IP address information ([0033] & [0056] & [0065]-[0067]), which meets the limitation of a first message having a first URL component comprising a plurality of hierarchically related URL components, the plurality of hierarchically related URL components comprising a first URL component and a second URL component, the second URL component being a descendant of the first URL component, the rejection rule rejecting message based on the messages comprising the first URL component, the exception rule allowing messages having the first URL component to pass, the exception rule is generated by inferencing a scalar data type of the descendants of the first URL component, the first URL component a hierarchical component of a directory path portion of an URL. It would have been obvious to one of ordinary skill in the art at the time the invention was made to dynamically filter the packets of Xie using domain and IP address rules, as taught in Balasubramanian, in order to control access to specific areas in web space as taught by Balasubramanian (0016)). Xie does not disclose dynamically generated rules when it is determined that packet denial is greater than a desired threshold amount. Chelsa discloses maintaining a frequency for the number of occurrences with which messages were rejected ([0017]), which meets the limitation of maintaining, by the intermediary device, a first number of occurrences of the first URL component in messages received by the intermediary device, maintaining, by the intermediary device, a second number of occurrences of the second URL

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component in messages received by the intermediary device, determining, by the intermediary device, that a function of the first number of occurrences and the second number of occurrences exceeds a threshold, wherein the frequency is a function of a number of occurrences with which a URL component and its descendants were rejected by a rule. It would have been obvious to one of ordinary skill in the art to dynamically generate exceptions for the dynamic filter of Xie based on a desired amount of allowable packets in order to minimize the blocking of legitimate traffic as taught by Chelsa ([0017]).

Referring to claims 43, 53, Xie discloses that the packets are initially denied based on counter rules that increment the count until a threshold is exceeded (Col. 5, lines 10-15). Xie discloses filtering packets using rules based on port number and IP address (Col. 5, lines 58-60), but does not specify filtering based on URLs and URL descendants. Balasubramanian discloses a rule based filtering system where URL requests are filtered at the domain and IP address level, based on rules, to allow/deny traffic for all domains beginning with identified IP address information ([0056] & [0065]-[0067]), which meets the limitation of the first URL component in messages received, the first URL component having no descendants. It would have been obvious to one of ordinary skill in the art at the time the invention was made to dynamically filter the packets of Xie using domain and IP address rules, as taught in Balasubramanian, in order to control access to specific areas in web space as taught by Balasubramanian ([0016]). Xie does not disclose dynamically generated rules when it is determined that packet denial is greater than a desired threshold amount. Chelsa discloses maintaining a frequency for the number of occurrences with which messages were rejected ([0017]), which meets the limitation of the first number of occurrences of messages received exceeding the threshold, a number of occurrences

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in messages received exceeding the threshold. It would have been obvious to one of ordinary skill in the art to dynamically generate exceptions for the dynamic filter of Xie based on a desired amount of allowable packets in order to minimize the blocking of legitimate traffic as taught be Chelsa ([0017]).

Referring to claims 46, 56, Xie discloses that the packets are initially denied based on counter rules that increment the count until a threshold is exceeded (Col. 5, lines 10-15). The dynamic filter, filters the initially denied packets using an additional set of rules, which are dynamically generated (Col. 5, lines 50-52). Balasubramanian discloses a rule based filtering system where URL requests are filtered at the domain and IP address level, based on rules, to allow/deny traffic for all domains beginning with identified IP address information ([0056] & [0065]-[0067]). Xie does not disclose dynamically generated rules when it is determined that packet denial is greater than a desired threshold amount. It would have been obvious to one of ordinary skill in the art to dynamically generate exceptions for the dynamic filter of Xie based on a desired amount of allowable packets in order to minimize the blocking of legitimate traffic as taught be Chelsa ([0017]). This modified version of Xie would meet the limitation of the threshold as a product of a total number of messages over a time interval and a percentage of the messages that should be allowed.

Referring to claims 44, 45, 48, 49, 54, 55, 58, 59, Xie discloses that the packets are initially denied based on counter rules that increment the count until a threshold is exceeded (Col. 5, lines 10-15), which meets the limitation of the frequency is a weighted/direct count of occurrences of the component. Xie discloses filtering packets using rules based on port number and IP address (Col. 5, lines 58-60), but does not specify filtering based on URLs and URL

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descendants. Balasubramanian discloses a rule based filtering system where URL requests are filtered at the domain and IP address level, based on rules, to allow/deny traffic for all domains beginning with identified IP address information ([0056] & [0065]-[0067]), which meets the limitation of the function is a sum of at least the first number of occurrences and the second number of occurrences, the function as a function of the first number of occurrences and a number of occurrences of each descendant of the first URL component in messages received by the intermediary device, the function as a direct count of the occurrences of the first URL component, the function as a weighted count of the occurrences of the first URL component. It would have been obvious to one of ordinary skill in the art at the time the invention was made to dynamically filter the packets of Xie using domain and IP address rules, as taught in Balasubramanian, in order to control access to specific areas in web space as taught by Balasubramanian (0016]).

### ***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BENJAMIN E. LANIER whose telephone number is (571)272-3805. The examiner can normally be reached on M-Th 7:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Benjamin E Lanier/  
Primary Examiner, Art Unit 2432